

## LINN ENERGY

2130 W. Bender Blvd.  
Hobbs, NM 88241  
Phone 575.738.1739

Hudson Federal #006  
(2RP-743)

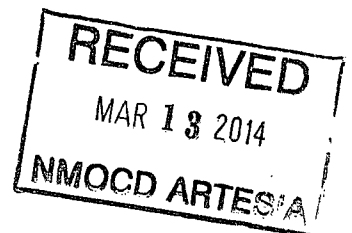
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## Termination Request

API No. 30-015-29008

Release Date: March 30<sup>th</sup>, 2011

Unit Letter I, Section 18, Township 17S, Range 31E



# Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

**March 7<sup>th</sup>, 2014**

## **Mike Bratcher**

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

**RE: Termination Request**

**Linn Energy – Hudson Federal #006 (2RP-743)**

**UL/I sec. 18 T17S R31E**

**API No. 30-015-26008**

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

## **Background and Previous Work**

The site is located approximately 4.5 miles northeast of Loco Hills, New Mexico at UL/I sec. 18 T17S R31E. This site is in an area of no known groundwater.

On March 30<sup>th</sup>, 2011, Linn had a produced water release that occurred when a clamp failed on the Russell Battery transfer line. A total of 100 barrels of produced water was released over 14,833 sq ft of pasture land and lease pad. A vacuum truck was called to the site and recovered 90 barrels of produced water. BLM was notified of the release on March 30<sup>th</sup>, 2011 and NMOCD approved the initial C-141 on April 14<sup>th</sup>, 2011 (Appendix A).

RECS personnel arrived on site on October 15<sup>th</sup>, 2013 to assess the site. Surface samples and samples at a depth of 1 ft bgs were taken at seven points within the release area (Figure 1). The samples were field tested for chlorides and hydrocarbons and the samples were taken to a commercial laboratory for analysis (Appendix B). All samples returned laboratory chloride results less than 250 mg/kg and Gasoline Range Organics (GRO) and BTEX results of non-detect. Diesel Range Organics (DRO) results were slightly elevated but were below regulatory standards.

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on November 12<sup>th</sup>, 2013. BLM approved the plan on the same day and NMOCD approved the plan on November 19<sup>th</sup>, 2013.

As part of the CAP, the site would be scraped 3 – 6 inches to remove the asphaltine from the surface of the site. This scraped material will be sent to a NMOCD approved facility for disposal. Clean soil would be imported to the site to backfill the scrape and bring the

site to surface level. The site would be contoured to the surrounding location. The site would then be seeded with a blend of native vegetation. Vegetation provides an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

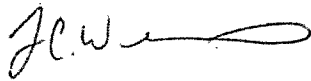
RECS personnel were on site beginning on December 30<sup>th</sup>, 2013. The release was scraped down 6 inches and a total of 296 yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 72 yards of caliche and 290 yards of top soil were imported to the site to serve as backfill. A sample of imported soil was taken to a commercial laboratory and returned a chloride result of non-detect (Appendix C). The pasture area was backfilled with the imported soil and the lease road was backfilled with the clean, imported caliche. The site was contoured to the surrounding location. On January 17<sup>th</sup>, 2014, soil amendments were added to the site and the site was seeded with BLM mix #2.

Photo documentation of all activities can be found in Appendix D.

Given that Linn has completed the activities as stated in the NMOCD approved Corrective Action Plan, Linn respectfully requests 'remediation termination' and site closure. The final C-141 will be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

- Figure 1 – Augur Sampling Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Imported Soil Lab
- Appendix D – Photo Documentation
- Appendix E – Final C-141

# Figures

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

# Auger Sampling Data

Point 1	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	48	0.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	11	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 2	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	128	0.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	144	9.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

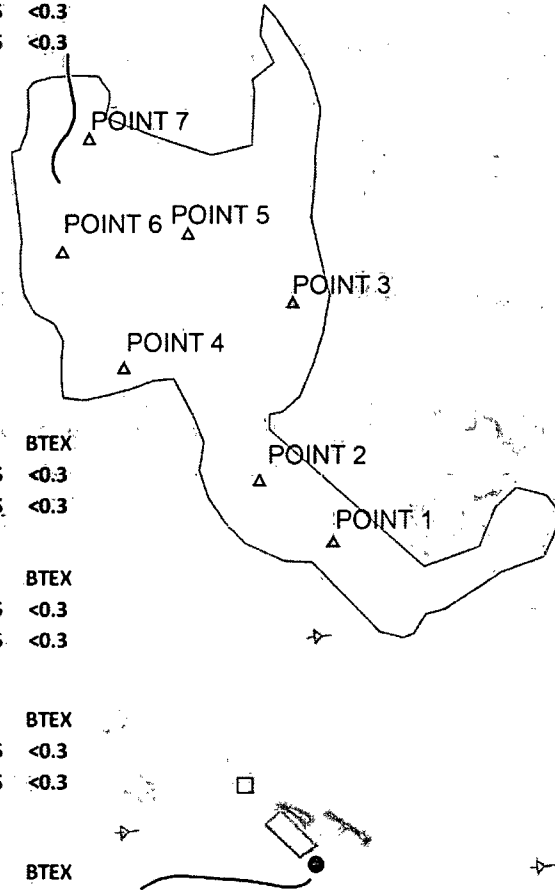
Point 3	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	64	0.1	<10	126	<0.05	<0.05	<0.05	<0.15	<0.3
1'	32	11.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 4	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	160	0.3	<10	2530	<0.05	<0.05	<0.05	<0.15	<0.3
1'	64	9.1	<10	23.5	<0.05	<0.05	<0.05	<0.15	<0.3

Point 5	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	96	0.6	<50	1400	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	15.5	<50	925	<0.05	<0.05	<0.05	<0.15	<0.3

Point 6	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	192	0.6	<10	273	<0.05	<0.05	<0.05	<0.15	<0.3
1'	160	8.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 7	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	32	0.8	<10	1250	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	6.4	<50	<50	<0.05	<0.05	<0.05	<0.15	<0.3



## Legend

- ▲ POINT
- ✕ DEADMAN
- ELECTRICAL BOX
- WELLHEAD
- SURFACE POLY PIPELINE
- ▭ PUMP JACK
- ▭ STAIN (14,833 sq ft)

Landowner: BLM

DGW: None

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, etc.



**LINN HUDSON**  
**FEDERAL #006**  
**2RP-743**

LEGALS: UL/I sec. 18  
 T-17-S R-31-E  
 EDDY COUNTY, NM

Figure 1



0 40 80  
 Feet

GPS date: 10/15/13 KS  
 Drawing date: 10/30/13  
 Drafted by: L. Weinheimer

# Appendix A

Initial C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

APR 13 2011

NMOCD-ARTESIA

Form C-141  
Revised October 10, 2003  
Submit 2 copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

*nMLB-1110431190* OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Linn Energy	Contact Dennis Potter
Address PO Box 69, Loco Hills, NM 88255	Telephone No. 575 677 2327
Facility Name Hudson Federal #06	Facility Type Injection Well

Surface Owner BLM	Mineral Owner BLM	Lease No. NM1C054908 API 30-015-26008
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
11	18	17S	51E					Eddy

Latitude N32.8343 Longitude W103.9040 (at clamp in tin horn)

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 100 bbls Water	Volume Recovered: 90 bbls Water
Source of Release: Produced Water Line	Date and Hour of Occurrence: 30 Mar 11 1100hrs	Date and Hour of Discovery: 30 Mar 11 1100
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES: To Whom? <i>Immediate Notification Required to OCD for 725665</i> Terry Gregston-BLM	
By Whom? Dennis Potter	Date and Hour: 30 Mar 11 1500hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES: Volume Impacting the Watercourse: N/A	

If a Watercourse was Impacted, Describe Fully:  
N/A

Describe Cause of Problem and Remedial Action Taken:  
The release was the result of a clamp failure on the Russell Battery Transfer Line. A vac truck was immediately called and on-site to vac up all free standing liquid. A back hoe was used to build an earthen dike in order to reduce spreading of water. The affected area is approximately 20' x 300'. The area will be delineated and a work plan will be submitted to NMOCD and BLM for review and approval.

Describe Area Affected and Cleanup Action Taken:

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health, or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Dennis J. Potter</i>	OIL CONSERVATION DIVISION	
Printed Name: Dennis Potter	Approved by: <i>Mike Deacon</i>	
Title: Assistant Production Foreman	Approval Date: <i>4/14/2011</i>	Expiration Date:
E-mail Address: dpotter@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 13 April Phone: 505 206 7673	Remediation per OCD Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: <i>5/14/2011</i>	

\* Attach Additional Sheets If Necessary

*2 RP-743*

# Appendix B

## Initial Sampling Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



October 29, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: HUDSON FEDERAL #006 2RP-743

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

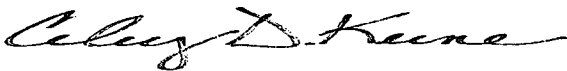
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: POINT 1 @ SURFACE (H302604-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/29/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	197	98.6	200	2.61	
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	188	94.1	200	1.30	

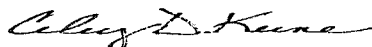
Surrogate: 1-Chlorooctane 82.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.1 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: POINT 2 @ SURFACE (H302604-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/29/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	197	98.6	200	2.61	
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	188	94.1	200	1.30	

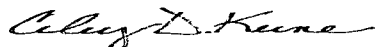
Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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RICE ENVIRONMENTAL CONSULTING & SAFETY  
JACOB KAMPLAIN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: POINT 3 @ SURFACE (H302604-03)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/29/2013	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	197	98.6	200	2.61	
DRO >C10-C28	126	10.0	10/29/2013	ND	188	94.1	200	1.30	

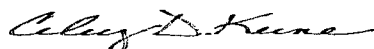
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 JACOB KAMPLAIN  
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 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: POINT 4 @ SURFACE (H302604-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57	
Total BTX	<0.300	0.300	10/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/29/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	10/29/2013	ND	197	98.6	200	2.61		
DRO >C10-C28	2530	100	10/29/2013	ND	188	94.1	200	1.30		

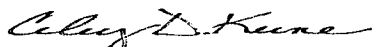
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 374 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: POINT 5 @ SURFACE (H302604-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/29/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	10/29/2013	ND	197	98.6	200	2.61		
DRO >C10-C28	1400	50.0	10/29/2013	ND	188	94.1	200	1.30		

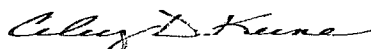
Surrogate: 1-Chlorooctane 89.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 211 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: POINT 6 @ SURFACE (H302604-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/29/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	210	105	200	1.98	
DRO >C10-C28	273	10.0	10/29/2013	ND	202	101	200	1.03	

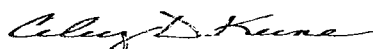
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: POINT 7 @ SURFACE (H302604-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/29/2013	ND	2.16	108	2.00	2.91		
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57		
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96		
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57		
Total BTEx	<0.300	0.300	10/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/29/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	210	105	200	1.98	
DRO >C10-C28	1250	10.0	10/29/2013	ND	202	101	200	1.03	

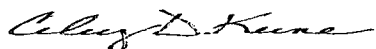
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

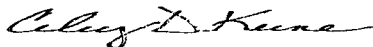
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Kyle Schmidt		10-25-13	Jodi Henson	Fax Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Time:		REMARKS:		
		Date:	Received By:	kschnaidt@rice-ecs.com		
		Time:		Knorman@rice-ecs.com		
Delivered By: (Circle One)			Sample Condition	Kjones@riceswd.com; jkamplain@rice-ecs.com		
Sampler - UPS - Bus - Other:			Cool Intact	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY:		
				(Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

October 23, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: HUDSON FEDERAL #006 2RP-743

Enclosed are the results of analyses for samples received by the laboratory on 10/18/13 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

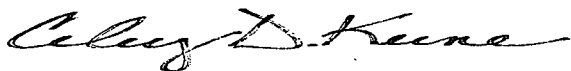
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
JACOB KAMPLAIN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 1' (H302532-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577	
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813	
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211	
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365	
Total BTEX	<0.300	0.300	10/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.9 % 89.4-126

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/21/2013	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97	

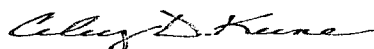
Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 1' (H302532-02)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/21/2013	ND	400	100	400	3.92		

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97	

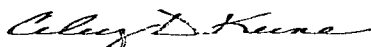
Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 138 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 1' (H302532-03)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577	
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813	
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211	
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365	
Total BTEX	<0.300	0.300	10/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/21/2013	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97	

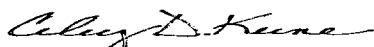
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 4 1' (H302532-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577	
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813	
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211	
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365	
Total BTEX	<0.300	0.300	10/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/21/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	23.5	10.0	10/22/2013	ND	192	95.9	200	2.97	

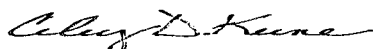
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 1' (H302532-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577	
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813	
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211	
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365	
Total BTEX	<0.300	0.300	10/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/21/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	10/22/2013	ND	200	99.9	200	3.36		
<b>DRO &gt;C10-C28</b>	<b>925</b>	50.0	10/22/2013	ND	192	95.9	200	2.97		

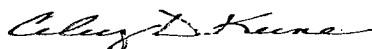
Surrogate: 1-Chlorooctane 73.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 184 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 6 1' (H302532-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEx	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/21/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97	

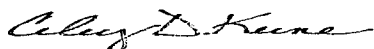
Surrogate: 1-Chlorooctane 96.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
JACOB KAMPLAIN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 7 1' (H302532-07)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577	
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813	
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211	
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365	
Total BTEX	<0.300	0.300	10/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/21/2013	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	<50.0	50.0	10/22/2013	ND	192	95.9	200	2.97	

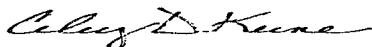
Surrogate: 1-Chlorooctane 96.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 138 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

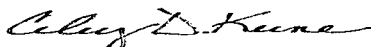
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <b>RECS</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager:		P.O. #:		<div>CHLORIDES TPH BTEX</div>																				
Address:		Company:																						
City: State: Zip:		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name:		State: Zip:																						
Project Location: <b>HUDSON FEDERAL #006 ZRP-743</b>		Phone #:																						
Sampler Name: <b>EDWARD CESAREO</b>		Fax #:																						
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(GRAB OR C)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME										
<b>H302532</b>																								
1	Pt. 1	1'	1			/				/			10-18-13	1:50	/	/	/							
2	Pt. 2	1'	1			/				/				1:55	/	/	/							
3	Pt. 3	1'	1			/				/				2:00	/	/	/							
4	Pt. 4	1'	1			/				/				2:05	/	/	/							
5	Pt. 5	1'	1			/				/				2:10	/	/	/							
6	Pt. 6	1'	1			/				/				2:15	/	/	/							
7	Pt. 7	1'	1			/				/				2:20	/	/	/							
						/				/				2:25	/	/	/							

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Relinquished By: <i>[Signature]</i>	Date: <b>10-18-13</b>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <b>3:50 PM</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<b>JKamplain@rice-ecs.com</b> <b>hconderr@riceswd.com</b> <b>lweinheimer@rice-ecs.com</b>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>[Signature]</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54

# Appendix C

## Imported Soil Lab

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

February 13, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: HUDSON FEDERAL #006 2RP-743

Enclosed are the results of analyses for samples received by the laboratory on 01/28/14 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
JACOB KAMPLAIN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	01/28/2014	Sampling Date:	01/28/2014
Reported:	02/13/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

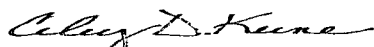
**Sample ID: 5 PT. COMP IMPORTED SOIL (H400271-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/03/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

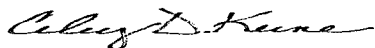
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

---

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---

Celest D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-333-7476

#54

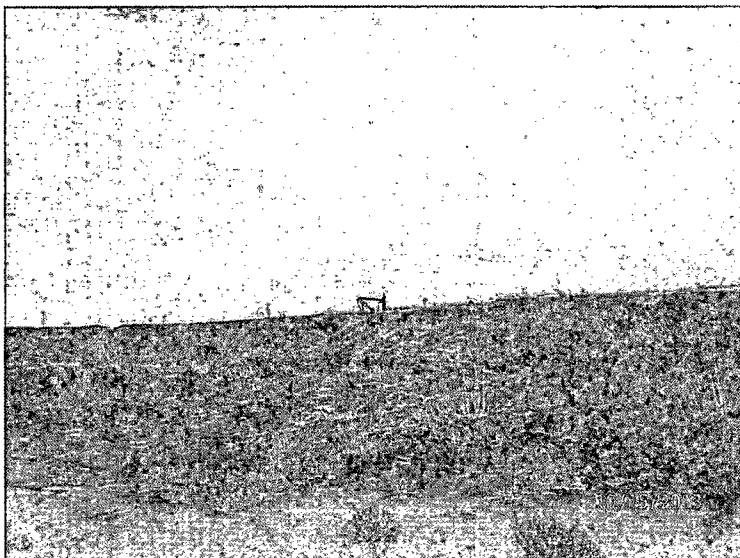
# Appendix D

## Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

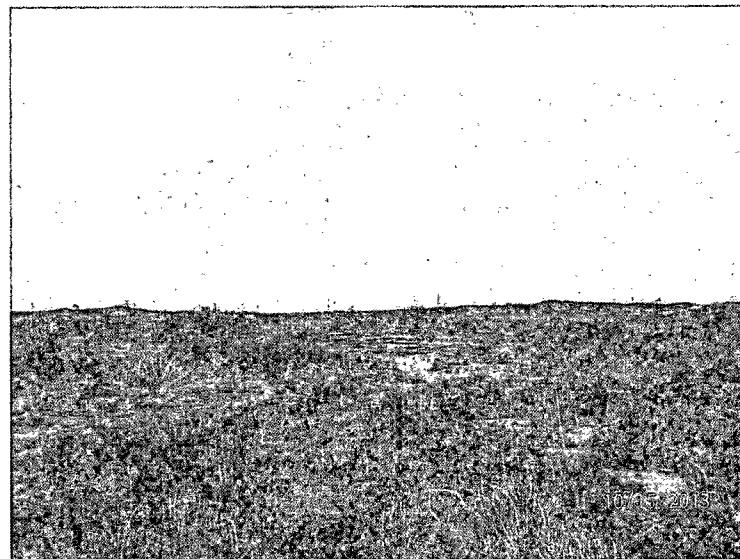
# Linn Hudson Federal #006

Unit Letter I, Section 18, T17S, R31E



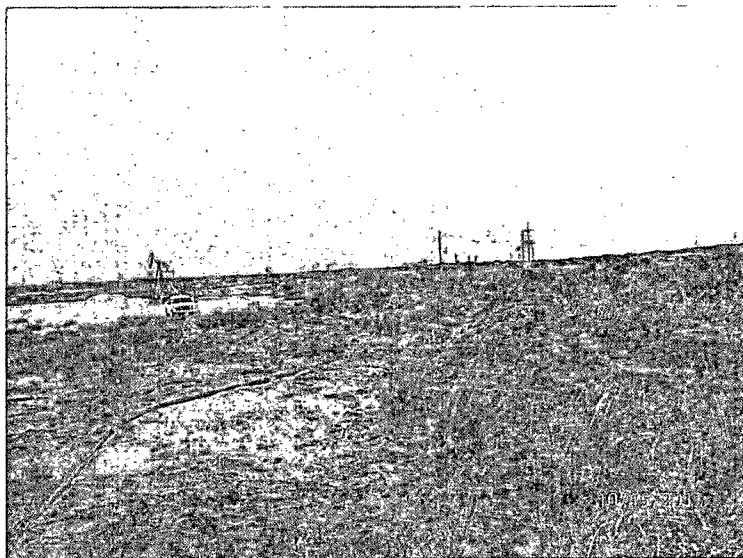
Initial site photo, facing northeast

10/15/13



Initial site photo, facing north

10/15/13



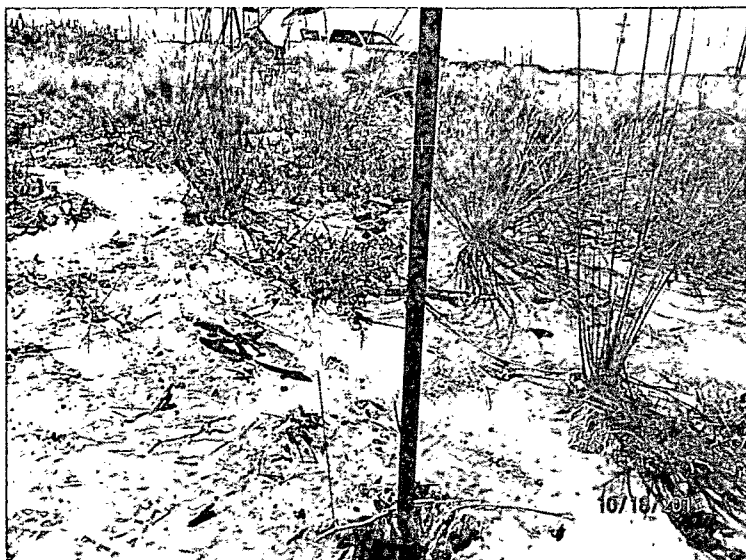
Initial site photo, facing south

10/15/13

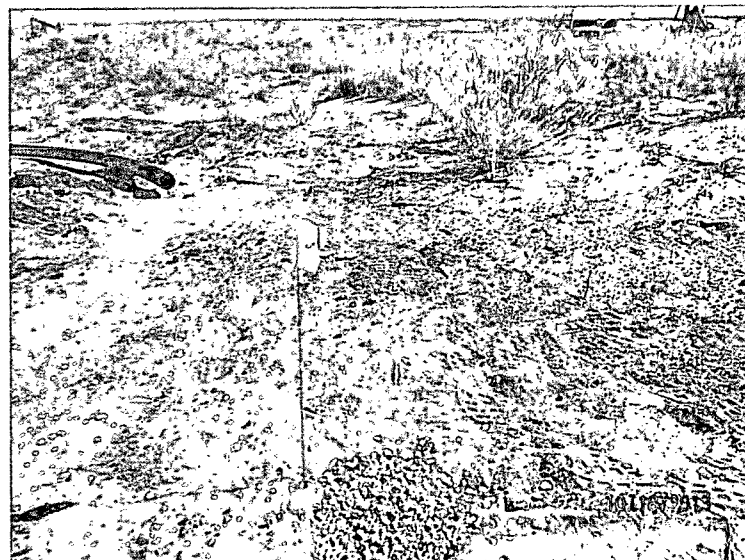


Initial site photo, facing southwest

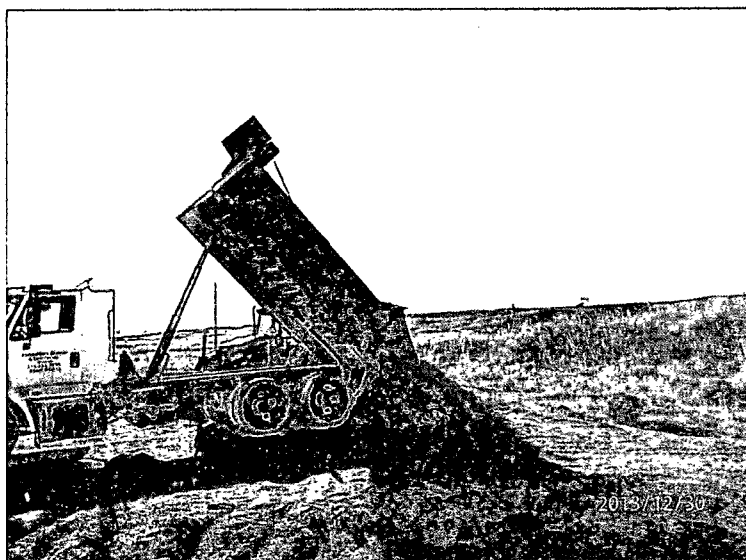
10/15/13



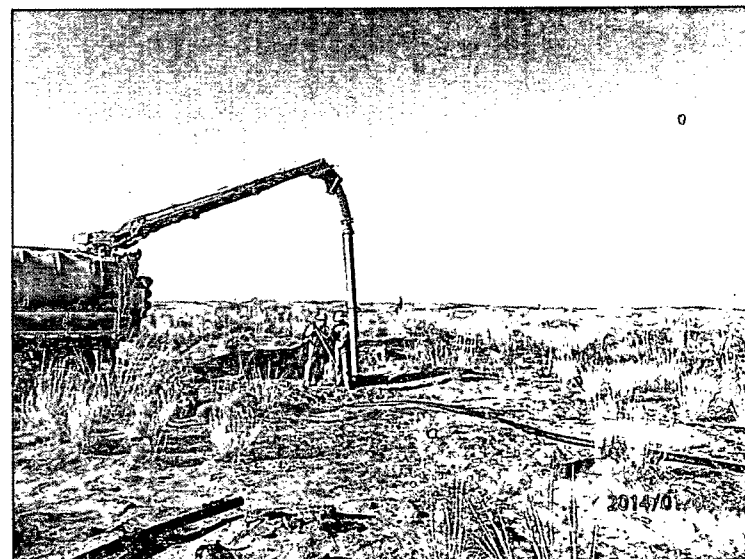
Auguring for depth, facing southeast 10/18/13



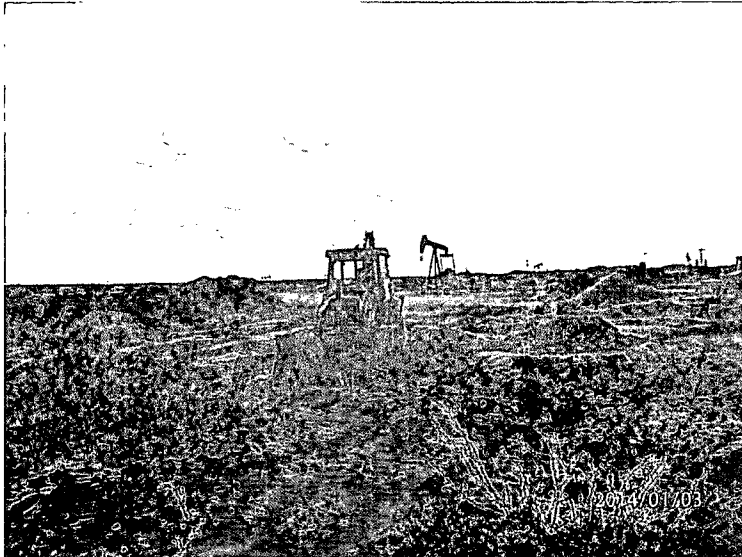
Plugging auger point in total with bentonite, facing southeast 10/18/13



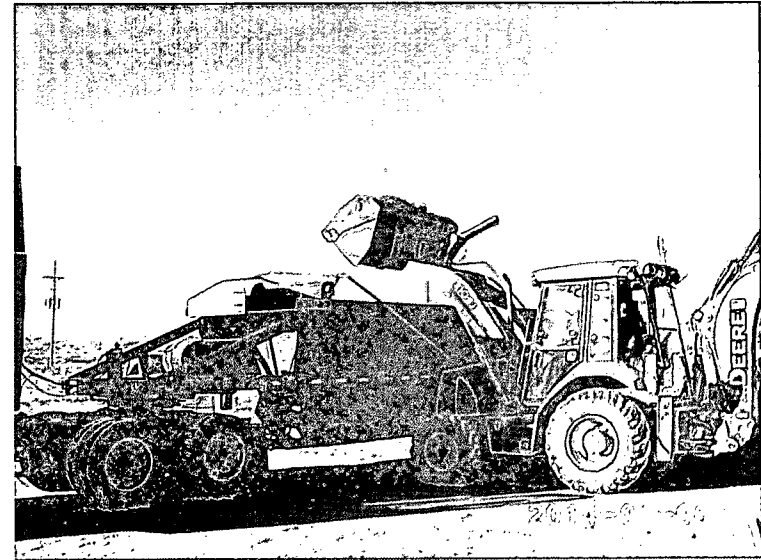
Importing caliche, facing south 12/30/13



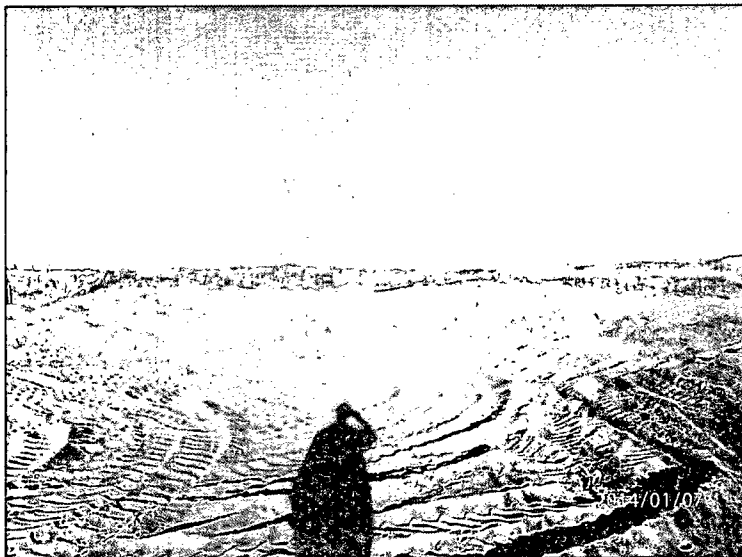
Spotting lines with the hydrovac, facing west 1/2/14



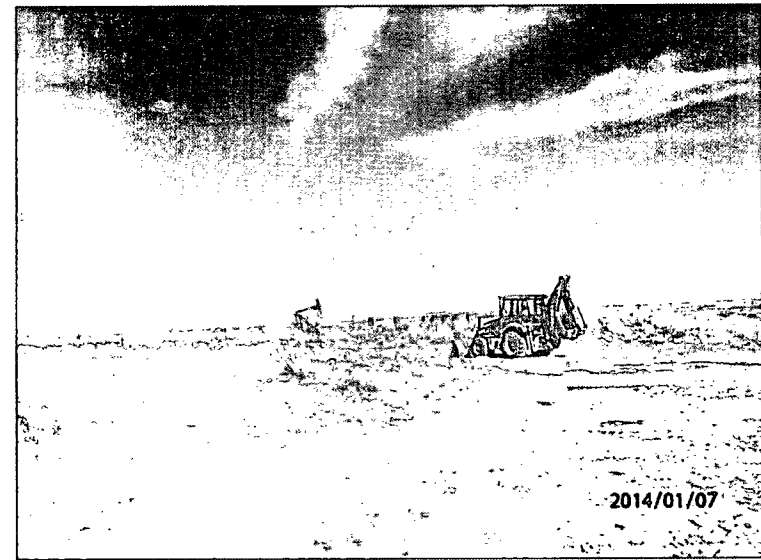
Excavating release area, facing southwest 1/3/14



Exporting soil, facing southwest 1/6/14



Scrape completed, facing north 1/7/14

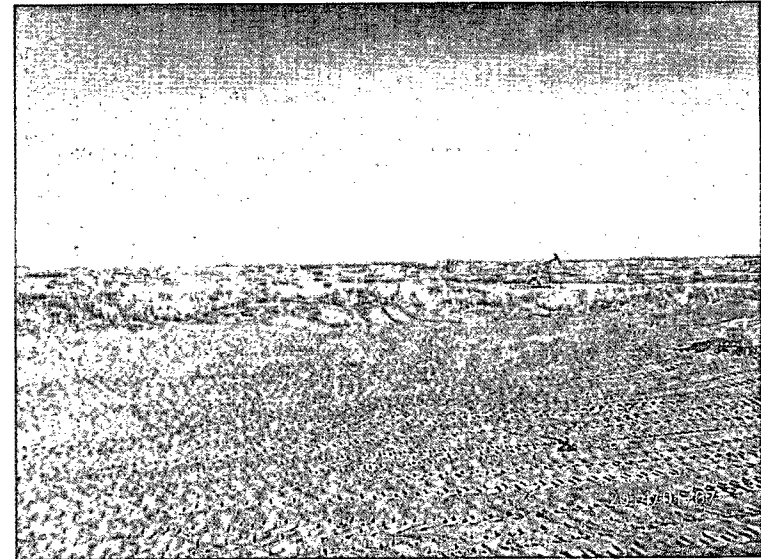


Backfilling site, facing northeast 1/7/14



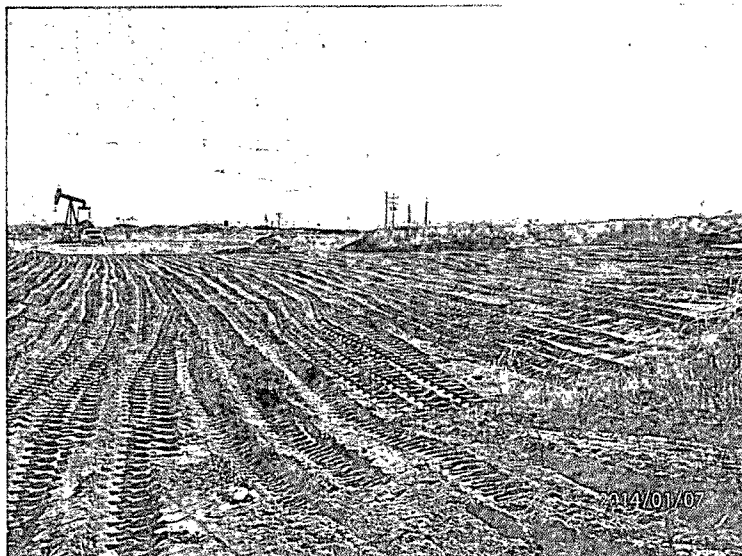
Backfill completed, facing north

1/7/14



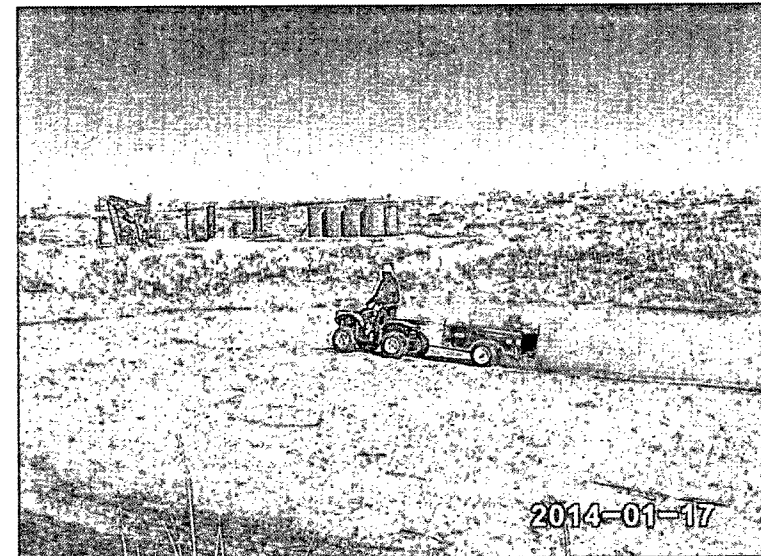
Backfill completed, facing northeast

1/7/14



Backfill completed, facing south

1/7/14



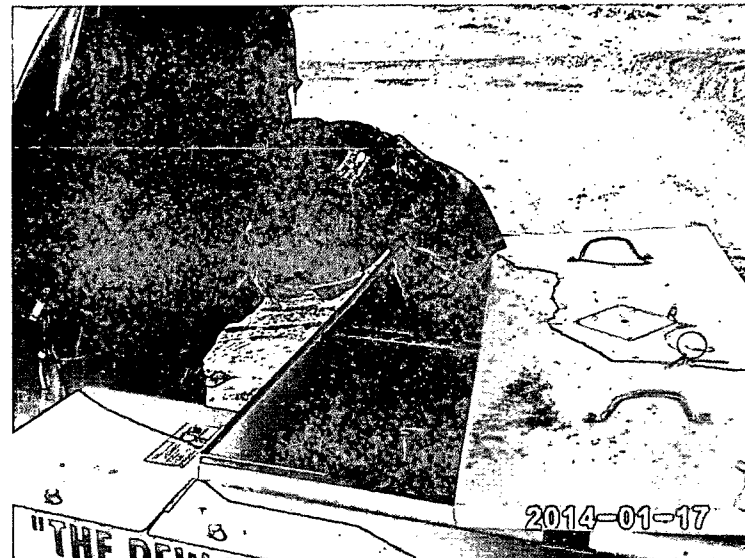
Applying soil amendments, facing northeast

1/17/14

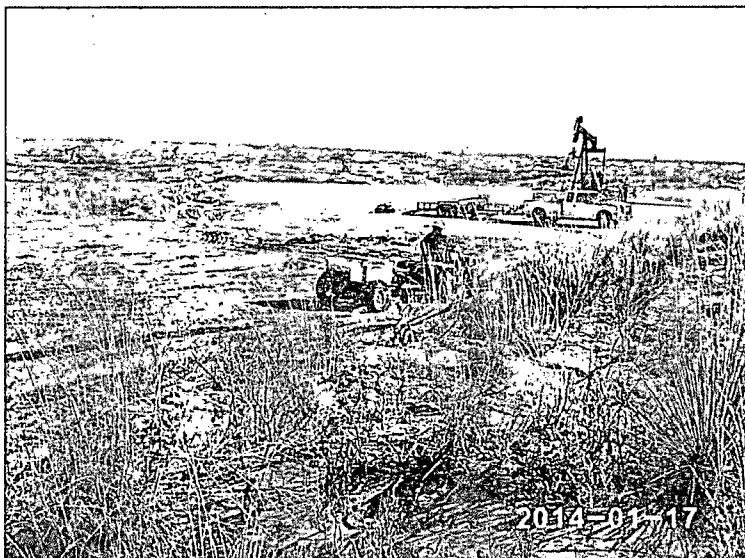




Tilling in amendments, facing northwest 1/17/14



Loading seed in spreader 1/17/14



Seeding site, facing southeast 1/17/14

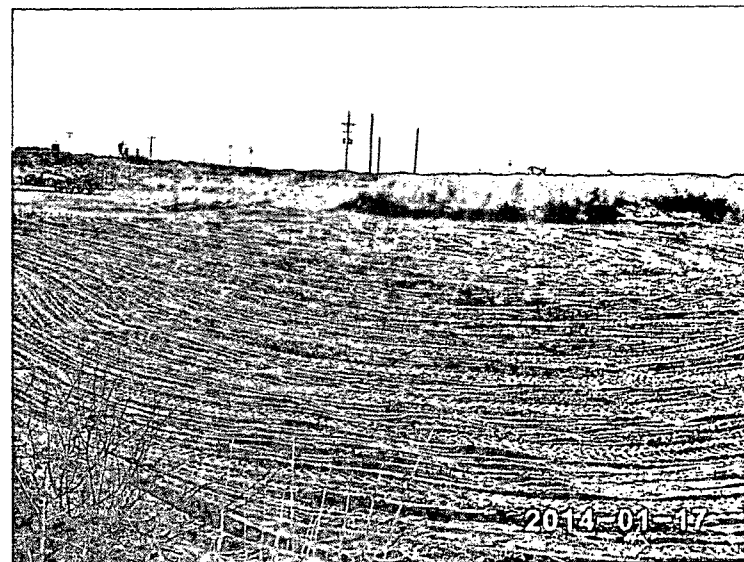


Site completed, facing northwest 1/17/14



Site completed, facing southeast

1/17/14



Site completed, facing southwest

1/17/14



# Appendix E

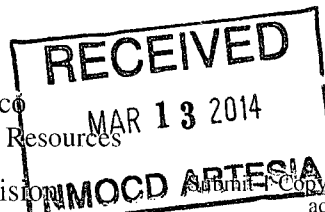
Final C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-141  
Revised August 8, 2011

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Linn Energy	Contact Brian Wall
Address 2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No. (806) 367-0645
Facility Name Hudson Federal #06	Facility Type Injection well

Surface Owner BLM	Mineral Owner BLM	API No. 30-015-26008
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	18	17S	31E					Eddy

Latitude N 32.8343 Longitude W 103.9040 (at clamp in tin horn)

#### NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 100 bbls Water	Volume Recovered 90 bbls Water
Source of Release Produced Water Line	Date and Hour of Occurrence 30Mar11 1100hrs	Date and Hour of Discovery 30Mar11 1100hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Terry Gregston - BLM	
By Whom? Dennis Potter	Date and Hour 30Mar11 1500hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

The release was the result of a clamp failure on the Russell Battery Transfer Line. A vac truck was immediately called and on site to vac up all free standing liquid. A back hoe was used to build an earthen dike in order to reduce spreading of water.

Describe Area Affected and Cleanup Action Taken.\* The release covered 14,833 sq ft of pasture land and lease pad. RECS personnel arrived on site on October 15<sup>th</sup>, 2013 to assess the site. Surface samples and samples at a depth of 1 ft bgs were taken at seven points within the release area. The samples were field tested for chlorides and hydrocarbons and the samples were taken to a commercial laboratory for analysis. All samples returned laboratory chloride results less than 250 mg/kg and Gasoline Range Organics (GRO) and BTEX results of non-detect. Diesel Range Organics (DRO) results were slightly elevated but were below regulatory standards. A Corrective Action Plan (CAP) was submitted to NMOC D and BLM on November 12<sup>th</sup>, 2013. BLM approved the plan on the same day and NMOC D approved the plan on November 19<sup>th</sup>, 2013. RECS personnel were on site beginning on December 30<sup>th</sup>, 2013. The release was scraped down 6 inches and a total of 296 yards of contaminated soil was taken to a NMOC D approved facility for disposal. A total of 72 yards of caliche and 290 yards of top soil were imported to the site to serve as backfill. A sample of imported soil was taken to a commercial laboratory and returned a chloride result of non-detect. The pasture area was backfilled with the imported soil and the lease road was backfilled with the clean, imported caliche. The site was contoured to the surrounding location. On January 17<sup>th</sup>, 2014, soil amendments were added to the site and the site was seeded with BLM mix #2.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC D marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC D acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

#### OIL CONSERVATION DIVISION

Signature: <i>Fred B Wall</i>	Approved by Environmental Specialist:		
Printed Name: Brian Wall			
Title: Construction Foreman II	Approval Date:	Expiration Date:	
E-mail Address: Bwall@linenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3/7/14	Phone: (806) 367-0645		

\* Attach Additional Sheets If Necessary